	Application No.	Applicant(s)
Notice of Allowability	09/843,192	SHETTY, RAVINDRA K.
	Examiner	Art Unit
	Michael B. Holmes	2121
The MAILING DATE of this communication appears on the cover sheet with the c rrespondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
1. This communication is responsive to <i>November 8, 2004</i> .		
2. The allowed claim(s) is/are <u>1-38</u> .		
3. The drawings filed on 26 April 2001 are accepted by the Examiner.		
 4. ☐ Acknowledgment is made of a claim for foreign priority una) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	been received. been received in Application No	 -
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
5. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
6. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) hereto or 2) to Paper No./Mail Date		
(b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the	.84(c)) should be written on the drawin	ngs in the front (not the back) of
7. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT	sit of BIOLOGICAL MATERIAL n	nust be submitted. Note the
Attachm nt(s)	5 🗆 11 11 11 11 11 11 11 11 11 11 11	·
1. Notice of References Cited (PTO-892)		atent Application (PTO-152)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	 Interview Summary Paper No./Mail Date 	(PTO-413), e .
3. Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date	8), 7. Examiner's Amendm	nent/Comment
4. Examiner's Comment Regarding Requirement for Deposit		nt of Reasons for Allowance
of Biological Material	9.	

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UNITED STATES PATENT AND TRADEMARK OFFICE

P.O. Box 1450, Alexandria, Virginia 22313-1450 - www.uspto.gov

Examiner's Detailed Office Action

- 1. Applicant arguments presented November 08, 2004 are persuasive, accordingly, claims 1-38 are allowed.
- 2. Claims 39-43 have been canceled.

REASONS FOR ALLOWANCE

- 3. The following is an Examiner's statement for reasons for allowance:
- 4. The closest prior art *Shinagawa* (USPN 6,363,368), *Itoh et al.* (USPN 6,052,678), and *Dueck et al.* (USPN 6,418,398) do not teach or render obvious applicant's claimed invention. In particular, as pointed out below,

the prior art lacks certain features and the combination as specified in the respective claims.

- 5. With regards to claim 1 Shinagawa, Itoh et al., and Dueck et al. do not disclose
- "... applying a search method to the set of locations, the search including a genetic algorithm, the genetic algorithm including an objective function to simultaneously minimize distance and time ..."
- 6. With regards to claim 10 Shinagawa, Itoh et al., and Dueck et al. do not disclose "... searching for pickup paths visiting each supplier location in the set of supplier locations, by applying a genetic algorithm that simultaneously minimizes distance and time ..."

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7. With regards to claim 24 Shinagawa, Itoh et al., and Dueck et al. do not disclose

" ... calculating a fitness for each chromosome in the current population, the fitness representing

distance and time simultaneously ... "

8. With regards to claim 34 Shinagawa, Itoh et al., and Dueck et al. do not disclose

" ... applying a genetic algorithm to find a first route starting at the starting location, ending

at the distribution center, and visiting each location in the set of locations, while minimizing

distance and time ... "

Correspondence Information

9. Any inquires concerning this communication or earlier communications from the

examiner should be directed to Michael B. Holmes, who may be reached Monday through

Friday, between 8:00 a.m. and 5:00 p.m. EST. or via telephone at (571) 272-3686 or facsimile

transmission (571) 273-3686 or email Michael.holmesb@uspto.gov.

If attempts to reach the examiner are unsuccessful the Examiner's Supervisor,

Anthony Knight, may be reached at (571) 272-3687.

Michael B. Holmes

Patent Examiner
Artificial Intelligence

Art Unit 2121

United States Department of Commerce

Patent & Trademark Office

Sunday, January 30, 2005

MBH

Anthony Knight

Supervisory Patent Examiner

Group 3600